

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended). A temperature indicating material, comprising:

- an electron donating compound;
- an electron accepting compound;
- a reversible material causing reversible transformation between crystal and amorphous states, or reversible transformation between phase separation and non-phase-separation, with respect to a part or all of the composition system; and
- a temperature characteristic controller;

wherein the temperature characteristic controller is solid-state in room temperature, and is selected from the group consisting of aromatic alcohol having at least one phenol hydroxide group, piperonyl alcohol, benzyl DL-mandelate, benzoin isopropyl ether, benzyl phenyl ketone, methyl 2-benzoylbenzoate, benzyl 2-naphthyl ether, 1-benzyloxy-2-methoxy-4-(1-propenyl)benzene, 4-benzyl biphenyl and terphenyl.

wherein at least a part of the temperature characteristic controller dissolves in the electron accepting compound, the reversible material, or the electron accepting compound and the reversible material so as to change speed of the reversible transformation between crystal and amorphous states, or speed of the reversible transformation between phase separation and non-phase-separation, with respect to the composition system, by its reversible transformation between crystal and amorphous states, or the speed of the reversible transformation between phase separation and non-phase separation,

wherein ratio between one mutual action and another mutual action, one mutual action is the mutual action between the electron donating compound and the

electron accepting compound after phase separation with respect to the composition system in accordance with change of temperature and time after initialized by heating and quenching, another mutual action is the mutual action between the electron donating compound and the electron accepting compound before initialized, is same or more to the same kind of ratio with respect to the temperature indicating material not including the temperature characteristic controller.

Claim 2 (Original). A temperature indicating material according to claim 1, wherein the temperature characteristic controller is aromatic alcohol including at least one phenol hydroxide group.

Claim 3 (Original). A temperature indicating material according to claim 2, wherein the temperature characteristic controller is p-hydroxy phenethyl alcohol.

Claim 4 (Original). A temperature indicating material according to claim 2, wherein the temperature characteristic controller is 2-hydroxy benzyl alcohol.

Claim 5 (Original). A temperature indicating material according to claim 2, wherein the temperature characteristic controller is vanillyl alcohol.

Claim 6 (Cancelled).

Claim 7 (Currently Amended). A temperature indicating material according to claim 6 1, wherein the ~~aromatic alcohol~~ temperature characteristic controller is piperonyl alcohol.

Claims 8-12 (Cancelled).

Claim 13 (Currently Amended). A temperature indicating material according to claim 8 1, wherein the ~~aromatic alcohol~~ temperature characteristic controller is benzyl ~~DL-mandelic~~ DL-mandate.

Claims 14 and 15 (Cancelled).

Claim 16 (Currently Amended). A temperature indicating material according to claim 14 1, wherein the temperature characteristic controller is benzoin isopropyl ether.

Claim 17 (Currently Amended). A temperature indicating material according to claim 14 1, wherein the temperature characteristic controller is benzyl phenyl ketone.

Claim 18 (Currently Amended). A temperature indicating material according to claim 14 1, wherein the temperature characteristic controller is methyl 2-benzoylbenzoate.

Claim 19 (Cancelled).

Claim 20 (Currently Amended). A temperature indicating material according to claim 19 1, wherein the ~~ether compound~~ temperature characteristic controller is benzyl 2-naphthyl ether.

Claim 21 (Currently Amended). A temperature indicating material according to claim 19 1, wherein the ~~ether compound~~ temperature characteristic controller is 1-benzyloxy-2-methoxy-4-(1-propenyl)benzene.

Claim 22 (Cancelled).

Claim 23 (Currently Amended). A temperature indicating material according to claim 22 1, wherein the temperature characteristic controller is 4-benzyl biphenyl.

Claim 24 (Currently Amended). A temperature indicating material according to claim 22 1, wherein the temperature characteristic controller is terphenyl.